

SEQCRF_0508-1147_Examiner_Amdt
SEQUENCE LISTING

<110> BURNOUF, Dominique, Yves, Joel
WAGNER, Jerome, Edouard
DUMAS, Philippe
FUJII, Shingo
FUCHS, Robert, Pierre, Paul
OLIERIC, Vincent

<120> PROTEIN CRYSTAL COMPRISING THE PROCESSIVITY CLAMP FACTOR
OF DNA POLYMERASE AND A LIGAND, AND ITS USES

<130> 0508-1147

<140> US 10/561,867

<141> 2006-07-06

<150> PCT/EP2004/006942

<151> 2004-06-25

<150> EP 03291596.9

<151> 2003-06-27

<160> 6

<170> PatentIn version 3.5

<210> 1

<211> 16

<212> PRT

<213> Escherichia coli

<400> 1

Val Thr Leu Leu Asp Pro Gln Met Glu Arg Gln Leu Val Leu Gly Leu
1 5 10 15

<210> 2

<211> 22

<212> PRT

<213> Artificial sequence

<220>

<223> synthetic peptide

<400> 2

Arg Pro Val Lys Val Thr Pro Asn Gly Ala Glu Asp Glu Ser Ala Glu
1 5 10 15

Ala Phe Pro Leu Glu Phe
20

<210> 3

<211> 30

<212> DNA

<213> Artificial sequence

<220>

<223> synthetic oligonucleotide - Primer for replication assay
Page 1

SEQCRF_0508-1147_Examiner_Amdt

<400> 3
gtaaaacgac ggccagtgcc aagcttagtc 30

<210> 4
<211> 90
<212> DNA
<213> Artificial sequence

<220>
<223> synthetic oligonucleotide - template for replication assay

<400> 4
ccatgattac gaattcagtc atcaccggcg ccacagacta agcttggcac tggccgtcgt 60
tttacaacgt cgtgactggg aaaaccctgg 90

<210> 5
<211> 366
<212> PRT
<213> Escherichia coli

<400> 5
Met Lys Phe Thr Val Glu Arg Glu His Leu Leu Lys Pro Leu Gln Gln
1 5 10 15

Val Ser Gly Pro Leu Gly Gly Arg Pro Thr Leu Pro Ile Leu Gly Asn
20 25 30

Leu Leu Leu Gln Val Ala Asp Gly Thr Leu Ser Leu Thr Gly Thr Asp
35 40 45

Leu Glu Met Glu Met Val Ala Arg Val Ala Leu Val Gln Pro His Glu
50 55 60

Pro Gly Ala Thr Thr Val Pro Ala Arg Lys Phe Phe Asp Ile Cys Arg
65 70 75 80

Gly Leu Pro Glu Gly Ala Glu Ile Ala Val Gln Leu Glu Gly Glu Arg
85 90 95

Met Leu Val Arg Ser Gly Arg Ser Arg Phe Ser Leu Ser Thr Leu Pro
100 105 110

Ala Ala Asp Phe Pro Asn Leu Asp Asp Trp Gln Ser Glu Val Glu Phe
115 120 125

Thr Leu Pro Gln Ala Thr Met Lys Arg Leu Ile Glu Ala Thr Gln Phe
130 135 140

Ser Met Ala His Gln Asp Val Arg Tyr Tyr Leu Asn Gly Met Leu Phe
Page 2

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|--|-----|
| SEQCRF_0508-1147_Examiner_Amdt | | | | | | | | | | | | | | | | | | |
| 145 | | | | | | 150 | | | | | | 155 | | | | | | 160 |
| Glu | Thr | Glu | Gly | Glu 165 | Glu | Leu | Arg | Thr | Val 170 | Ala | Thr | Asp | Gly | His 175 | Arg | | | |
| Leu | Ala | Val | Cys 180 | Ser | Met | Pro | Ile | Gly 185 | Gln | Ser | Leu | Pro | Ser 190 | His | Ser | | | |
| Val | Ile | Val 195 | Pro | Arg | Lys | Gly | Val 200 | Ile | Glu | Leu | Met | Arg 205 | Met | Leu | Asp | | | |
| Gly | Gly 210 | Asp | Asn | Pro | Leu | Arg 215 | Val | Gln | Ile | Gly | Ser 220 | Asn | Asn | Ile | Arg | | | |
| Ala 225 | His | Val | Gly | Asp | Phe 230 | Ile | Phe | Thr | Ser | Lys 235 | Leu | Val | Asp | Gly | Arg 240 | | | |
| Phe | Pro | Asp | Tyr | Arg 245 | Arg | Val | Leu | Pro | Lys 250 | Asn | Pro | Asp | Lys | His 255 | Leu | | | |
| Glu | Ala | Gly | Cys 260 | Asp | Leu | Leu | Lys | Gln 265 | Ala | Phe | Ala | Arg | Ala 270 | Ala | Ile | | | |
| Leu | Ser | Asn 275 | Glu | Lys | Phe | Arg | Gly 280 | Val | Arg | Leu | Tyr | Val 285 | Ser | Glu | Asn | | | |
| Gln | Leu 290 | Lys | Ile | Thr | Ala | Asn 295 | Asn | Pro | Glu | Gln | Glu 300 | Glu | Ala | Glu | Glu | | | |
| Ile 305 | Leu | Asp | Val | Thr | Tyr 310 | Ser | Gly | Ala | Glu | Met 315 | Glu | Ile | Gly | Phe | Asn 320 | | | |
| Val | Ser | Tyr | Val | Leu 325 | Asp | Val | Leu | Asn | Ala 330 | Leu | Lys | Cys | Glu | Asn 335 | Val | | | |
| Arg | Met | Met | Leu 340 | Thr | Asp | Ser | Val | Ser 345 | Ser | Val | Gln | Ile | Glu 350 | Asp | Ala | | | |
| Ala | Ser | Gln 355 | Ser | Ala | Ala | Tyr | Val 360 | Val | Met | Pro | Met | Arg 365 | Leu | | | | | |

| | |
|-------|---------------------|
| <210> | 6 |
| <211> | 7 |
| <212> | PRT |
| <213> | Artificial Sequence |

<220>
<223> synthetic peptide - derived from SEQ ID NO 1

<400> 6

Arg Gln Leu Val Leu Gly Leu
1 5